

CLAIMS

1 1. A method for treating melanoma in a mammalian subject, comprising the
2 step of administering to the subject an immunologically-effective amount of a xenogeneic
3 differentiation antigen of the same type as a differentiation antigen expressed by melanoma cells
4 of the subject.

1 2. The method according to claim 1, wherein the xenogeneic melanoma-
2 associated differentiation antigen is tyrosinase.

1 3. The method according to claim 1, wherein the xenogeneic melanoma-
2 associated differentiation antigen is gp75.

1 4. The method according to claim 1, wherein the xenogeneic antigen is a
2 human differentiation antigen, and the subject is a non-human mammal.

1 5. The method according to claim 4, wherein the xenogeneic melanoma-
2 associated differentiation antigen is tyrosinase.

1 6. The method according to claim 4, wherein the xenogeneic melanoma-
2 associated differentiation antigen is gp75.

1 7. The method according to claim 1, wherein the xenogeneic differentiation
2 antigen is a murine differentiation antigen.

1 8. The method according to claim 7, wherein the subject is a human.

1 9. The method according to claim 7, wherein the subject is a dog.

1 10. The method according to claim 1, wherein the xenogeneic melanoma-
2 associated differentiation antigen is administered as a vector comprising a DNA sequence
3 encoding the xenogeneic therapeutic melanoma-associated differentiation antigen under the
4 control of a promoter which promotes expression of the xenogeneic melanoma-associated
5 differentiation antigen in the subject.

1 11. The method according to claim 10, wherein the xenogeneic melanoma-
2 associated differentiation antigen is a human differentiation antigen.

1 12. The method according to claim 11, wherein the xenogeneic melanoma-
2 associated differentiation antigen is human tyrosinase.

1 13. The method according to claim 11, wherein the xenogeneic melanoma-
2 associated differentiation antigen is human gp75.

1 14. The method according to claim 10, wherein the xenogeneic melanoma-
2 associated differentiation antigen is a murine differentiation antigen.

1 15. The method according to claim 14, wherein the xenogeneic melanoma-
2 associated differentiation antigen is murine tyrosinase.

1 16. The method according to claim 14, wherein the xenogeneic melanoma-
2 associated differentiation antigen is murine gp75.

1 17. The method according to claim 10, wherein the plasmid has the sequence
2 given by sequence ID No. 1 and the subject is a non-human.

1 18. The method according to claim 10, wherein the plasmid has the sequence
2 given by sequence ID No. 2 and the subject is not a mouse.

1 19. The method according to claim 1, further comprising the step of
2 administering a syngeneic differentiation antigen of the same type as the xenogeneic
3 differentiation antigen, said syngeneic differentiation antigen being administered at the same time
4 as or subsequent to the xenogeneic differentiation antigen.

1 20. A method for treating canine malignant melanoma in a dog suffering from
2 canine malignant melanoma comprising administering to the dog an immunologically-effective
3 amount of a xenogeneic differentiation antigen of the same type as a differentiation antigen
4 expressed by melanoma cells of the dog.

1 21. The method according to claim 20, wherein the xenogeneic melanoma-
2 associated differentiation antigen is tyrosinase.

1 22. The method according to claim 20, wherein the xenogeneic melanoma-
2 associated differentiation antigen is human tyrosinase.

1 23. The method according to claim 20, wherein the xenogeneic melanoma-
2 associated differentiation antigen is administered as a vector comprising a DNA sequence
3 encoding the xenogeneic therapeutic melanoma-associated differentiation antigen under the
4 control of a promoter which promotes expression of the xenogeneic melanoma-associated
5 differentiation antigen in the dog.

1 24. The method according to claim 23, wherein the vector has the sequence
2 given by Seq. ID. NO. 1.

1 25. The method according to claim 23, wherein the vector has the sequence
2 given by Seq. ID. NO. 2.

1 26. A vector comprising the sequence given by Seq. ID No. 1.

1 27. A vector comprising the sequence given by Seq. ID No. 2.